Test Case	1
Created By	Group7

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
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#	Prerequisites
1	Backend server should be running.
2	

#	Test Data
1	username: f1
2	password: 123
3	

Test Scenario	Verify to be able to login with valid username and password
---------------	---

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Open the application	Application should open	As Expected	Pass
2	Enter username and password	Credential can be entered	As Expected	Pass
3	Click Login	User should be logged in and arrive to the Main Menu	As Expected	Pass

Test Case	2
Created By	Group7

Test	er's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
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#	Prerequisites
1	Backend server should be running.
2	

#	Test Data
1	username: f8
2	password: 123
3	

Test Scenario	Verify to be able to register with valid username and password

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Open the application	Application should open	As Expected	Pass
2	Click Register	Register screen should be seen	As Expected	Pass
3	Enter username and password	Credential can be entered	As Expected	Pass
4	Click Register	User should be redirected to Login screen	As Expected	Pass

Test Case	3
Created By	Group7

Test Case Description Fail to Login to The Game with Invalid Credentials

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	Backend server should be running.
2	

#	Test Data
1	username: furkan33
2	password: 234234
3	

Test Scenario	Verify to not be able to login with invalid username and password
. cot occiiai io	reing to not be able to login with invalid abername and password

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Open the application	Application should	As Expected	Pass
	Enter username and	open Credential can be		
2	password	entered	As Expected	Pass
		User should be		
3	Click Login	rejected and error	As Expected	Pass
		message should be	·	
		seen on Login Page		

Test Case	4
Created By	Group7

#	Prerequisites
1	
2	

#	Test Data
1	username: furkan33
2	password: 234234

Test Scenario Verify to not be able to login without backend connection	
---	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Open the application	Application should open	As Expected	Pass
2	Enter username and password	Credential can be entered	As Expected	Pass
3	Click Login	Network connection error should be seen on Login Page	As Expected	Pass

Test Case	5
Created By	Group7

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites	
1	Backend server should be running.	
2		

#	Test Data
1	username: f1
2	password: 123
3	

Test Scenario	Verify not to be able to register with unvalid username and password
. cot occiiai io	terry not to be able to register with any and asemanic and passivora

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Open the application	Application should open	As Expected	Pass
2	Click Register	Register screen should be seen	As Expected	Pass
3	Enter username and password	Credential can be entered	As Expected	Pass
4	Click Register	Invalid user name error should be seen on register screen	As Expected	Pass

Test Case	6
Created By	Group7

Test Case Description	Fail to Register to the Game due to Backend Connection
-----------------------	--

#	Prerequisites
1	
2	

#	Test Data
1	username: f1
2	password: 123

Test Scenario	Verify not to be able to register without running backend server
1 CSC Scenario	verify flot to be able to register without running backeria server

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Open the application	Application should open	As Expected	Pass
2	Click Register	Register screen should be seen	As Expected	Pass
3	Enter username and password	Credential can be entered	As Expected	Pass
4	Click Register	Network connection error should be seen on register screen	As Expected	Pass

Test Case	7
Created By	Group7

Test Case Description	Accessing Game Screen
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Tes	ster's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
-----	-------------	--------	-----------	-----------	----------------------	------

#	# Prerequisites	
1	User should be logged in.	
2	User should be in MainMenu	

#	Test Data
1	username: f1
2	password: 123
3	

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click on Play	User should be see As Expected		Pass
1	Click Off Flay	that game starts	ame starts	rass

Test Case	8
Created By	Group7

Test Case Description	Accessing LeaderBoard
-----------------------	-----------------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites	
1	Backend server should be running.	
2	User should be logged in	
3	User should be in MainMenu	

#	Test Data
1	username: f1
2	password: 123
3	
4	

Test Scenario	Try to access to the LeaderBoard screen by clicking leaderboard from main menu
---------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click on Leaderboard	User should be see the leaderboard page	As Expected	Pass

Test Case	9
Created By	Group7

Tester's Name Group7 Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
--------------------------------	-----------	----------------------	------

#	Prerequisites
1	User should be logged in.
2	User should be in MainMenu

#	Test Data
1	username: f1
2	password: 123
3	

Test Scenario	Try to log out from current player by clicking Log out from main menu

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click on Play	User should be logged out successfully and Login Page should be seen.	As Expected	Pass

Test Case	10
Created By	Group7

Test Case Description	Changing Page Limit inside the Leaderboard
-----------------------	--

Tester's Name Group7 Test Dat	4/27/2020 Test Case(Pass/Fail) Pass
-------------------------------	--

#	Prerequisites	
1	User should be logged in.	
2	User should be in Leaderboard	

#	Test Data
1	username: f1
2	password: 123
3	

Test Scenario	Try to change number of the records shown on the Leaderboard

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click and select different Page Limit from Page Limit Dropdown Menu	Records should be updated with corresponding page limit.	As Expected	Pass

Test Case	11
Created By	Group7

Test Case Description	Changing Time Range inside the Leaderboard
-----------------------	--

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

# Prerequisites	
1	User should be logged in.
2	User should be in Leaderboard

#	Test Data
1	username: f1
2	password: 123
3	

Test Scenario	Try to change the records shown on the Leaderboard with specified time range
---------------	--

S	Step	Step Details	Expected Results	Actual Results	Pass / Fail
	1	Click and select different Time Range from Time Range Dropdown Menu	Records should be updated with corresponding time range such as last week, last month or all.	As Expected	Pass

Test Case	12	
Created By	Group7	

	Test Case Description	Going Back to Main Menu
--	-----------------------	-------------------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

	#	Prerequisites	
1 User shou		User should be logged in.	
2		User should be in Leaderboard	

#	Test Data
1	username: f1
2	password: 123
3	

- 1	Test Scenario	Truto go back to the Main Many from the Leaderheard
- 1	rest scenario	Try to go back to the Main Menu from the Leaderboard

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click Back Button	Main Menu should be seen.	As Expected	Pass

Test Case	13
Created By	Group7

Test Case Description	Fail to retrieve Leaderboard due to Backend Connection
-----------------------	--

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites	
1	User should be logged in.	
2	User should be in Main Menu	

#	Test Data
1	username: f1
2	password: 123
3	

Test Scenario	Verify not to be able to retrieve leaderboard without running backend server
---------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click Leaderboard button	Leaderboard should be empty.	As Expected	Pass

Test Case	14
Created By	Group7

Test Case Description EndOfGameScreen - Player Dead

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites	
1	Player should be dead while	
1	playing the game	

#	Test Data
1	

Test Scenario	When player died and EndOfGameScreen opened text should be "Oops!"
---------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Automatic redirect	End Game screen should contain "Oops!" text	As Expected	Pass

Test Case	15
Created By	Group7

Test Case Description EndOfGameScreen - Players Win

Tester's Name	Group7	Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	----------	----------------------	------

#	Prerequisites
	Boss should be dead on last level
1	and players' health should be
	more than 0.

#	Test Data
1	

Test Scenario	When players succeed at last level EndOfGameScreen text should be "Congratulation"
Test Scendilo	and scores of them should be shown.

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Automatic redirect	End Game screen should contain "Congratulation" text, total score and individual scores on both players	As Expected	Pass

Test Case	16
Created By	Group7

Test Case Description	EndOfGameScreen - (Try/Play) Again Button
-----------------------	---

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

	#	Prerequisites	
Ī	1	EndOfTheGame Screen should be	
	1	loaded	

#	Test Data
1	

Step	Step Details	Expected Results	Actual Results	Pass / Fail	
1	Click the (Try/Play)	Opening of new	As Expected	Pass	
	Again Button	game	As Expected	rass	

Test Case	17	
Created By	Group7	

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites	
1	EndOfTheGame Screen should be	
1	loaded	

#	Test Data
1	

Test Scenario	When player clicks the Go to Menu button MainMenuScreen should be loaded.
---------------	---

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click the Go to Menu	User should be see	As Expected	Pass
1	Button	MainMenuScreen	As Expected	

Test Case	18	
Created By	Group7	

Test Case Description EndOfGameScreen - Go to Leaderboard	
---	--

Tester's Nam	e Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
--------------	----------	-----------	-----------	----------------------	------

	#	Prerequisites
Ī	1	EndOfTheGame Screen should be
l	1	loaded

#	Test Data
1	

Test Scenario When player clicks the Go to Leaderboard button LeaderBoardScreen should be loaded.

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Click the Go to	o to User should be see		Pass
1	Leaderboard	LeaderBoardScreen	As Expected	PdSS

Test Case	19	
Created By	Group7	

Test Case Description	Using cheat combination at MainMenuScreen
-----------------------	---

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	MainMenuScreen should be
	loaded
2	

#	Test Data
1	
2	

Test Scenario	Using cheat combination outside the GameScreen should not cause any error.
---------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Pressing CTRL + SHIFT	Nothing should be	As Expected	Pass
1	+ 9 at the same time	happened.	As Expected	rass

Test Case	20	
Created By	Group7	

Test Case Description	Using cheat combination at EndOfGameScreen
-----------------------	--

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	EndOfGameScreen should be
	loaded
2	

#	Test Data
1	
2	

Test Scenario	Using cheat combination outside the GameScreen should not cause any error.

Step	Step Details	Expected Results	Actual Results	Pass / Fail	
1	Pressing CTRL + SHIFT	Nothing should be	As Expected	Pass	
+	+ 9 at the same time	happened.	As Expected	r ass	

Test Case	21	
Created By	Group7	

Test Case Description	Using cheat combination at Level 1
-----------------------	------------------------------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded
2	Player should be alive at Level 1

#	Test Data
1	
2	

Test Scenario	Using cheat combination at Level 1 should make user to pass that level instantly
----------------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Pressing CTRL + SHIFT	Level 2 should be	As Expected	Pass
1	+ 9 at the same time	loaded	AS Expected	1 033

^{*}Being alive means having more than 1 Health

Test Case	22
Created By	Group7

Test Case Description	Using cheat combination at Level 2
-----------------------	------------------------------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites		
1	GameScreen should be loaded		
2	Player should be alive at Level 2		

#	Test Data
1	
2	

	Step	Step Details	Expected Results	Actual Results	Pass / Fail
	1	Pressing CTRL + SHIFT	Level 3 should be	As Expected	Pass
-	1	+ 9 at the same time	loaded	As Expected	r ass

^{*}Being alive means having more than 1 Health

Test Case	23
Created By	Group7

Test Case Description	Using cheat combination at Level 3
-----------------------	------------------------------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded
2	Player should be alive at Level 3

#	Test Data
1	
2	

Test Scenario	Using cheat combination at Level 3 should make user to pass that level instantly
----------------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Pressing CTRL + SHIFT	Level 4 should be	As Expected	Pass
1	+ 9 at the same time	loaded	As Expected	r ass

^{*}Being alive means having more than 1 Health

Test Case	24
Created By	Group7

Test Case Description	Using cheat combination at Level 4
-----------------------	------------------------------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded
2	Player should be alive at Level 4

#	Test Data
1	
2	

Test Scenario Using cheat combination at Level 4 should make user to pass that level instantly and starts waiting for second player.

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Pressing CTRL + SHIFT + 9 at the same time	Player should start for the second player with a text saying "Waiting for multiplayer"	As Expected	Pass

^{*}Being alive means having more than 1 Health

Test Case	25
Created By	Group7

Test Case Description Move Spaceship

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded

#	Test Data
1	

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Try to move spaceship using mouse

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Move mouse on GameScreen	Spaceship on the screen should move where mouse is.	As Expected	Pass

Test Case	26	
Created By	Group7	

Test Case Description Move Spaceship using Keyboard

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded

#	Test Data
1	

Test Scenario	Try to move spaceship using keyboard
----------------------	--------------------------------------

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Press Keyboard on	Nothing should	As Expected	
	GameScreen	happen.		

Test Case	27
Created By	Group7

Test Case Description	Player Dies
-----------------------	-------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded

#	Test Data
1	

Test Scenario	Try to get hit by alien bullets five times
----------------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Hit Alien bullet by moving spaceship using mouse	Game should stop and EndofGameScreen should be seen.	As Expected	Pass

Test Case	28
Created By	Group7

Test Case Description Getting Hit by Alien Bullet

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded

#	Test Data
1	

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Try to get hit by alien bullet using mouse

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Hit Alien bullet by moving spaceship using mouse	Health of the player should decrease and it's value should be updated on the GameScreen	As Expected	Pass

Test Case	29
Created By	Group7

Test Case Description	Kill Alien
-----------------------	------------

Tester's Name	Group7	Test Date	4/27/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	-----------	----------------------	------

#	Prerequisites	
1	GameScreen should be loaded	

#	Test Data
1	

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Try to hit the alien with bullets until it is dead

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Hit Alien by bullets fired by spaceship using mouse	Score of the player should increase on screen and alien should be removed from the GameScreen	As Expected	Pass

Test Case	30	
Created By	Group7	

Tester's Name	Group7	Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded

#	Test Data
1	

Try to finish all four levels on the game

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Kill every alien on level 1	Level 2 should be loaded.	As Expected	Pass
2	Kill every alien on level 2	Level 3 should be loaded.	As Expected	Pass
3	Kill every alien on level 3	Level 4 should be loaded.	As Expected	Pass
4	Kill every alien on level 4	WaitingMultiPlayer Screen should be loaded.	As Expected	Pass

Test Case	31	
Created By	Group7	

Test Case Description Pass level 1 without dying
--

Tester's Name	Group7	Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	----------	----------------------	------

#	Prerequisites
1	GameScreen should be loaded

#	Test Data
1	

Test Scenario	Try to finish level 1 without dying
----------------------	-------------------------------------

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Kill every alien on level 1	Level 2 should be loaded and Level should be increased on screen.	As Expected	Pass

Test Case	32	
Created By	Group7	

Test Case Description	EndOfGameScreen - Second Player Dead
------------------------------	--------------------------------------

Tester's Name	Group7	Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	----------	----------------------	------

#	Prerequisites
1	Other player should be dead
	while playing the game

#	Test Data
1	

Test Scenario	When second player died and EndOfGameScreen opened, text should be "Oops!"
---------------	--

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Automatic redirect	End Game screen should contain "Oops!" text	As Expected	Pass

Test Case	33
Created By	Group7

Test Case Description	All Players are Connected for Final Level
------------------------------	---

Tester's Name Gro	oup7 Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
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#	Prerequisites
1	Both players should finish first 4 levels
2	Both players should be waiting for final level

#	Test Data
1	
2	

Test Scenario	If both players are connected for the final level,
	A message will appear containing second players username and final level will start.

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Automatic redirect	Message should be shown with second player's username	As Expected	Pass
		and final level should start.		

Test Case	34
Created By	Group7

Test Case Description	Movement of Second Player
-----------------------	---------------------------

Tester's Name	Group7	Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	----------	----------------------	------

#	Prerequisites	
1	Final level should be started.	

#	Test Data
1	

Test Scenario

Movement of the second player should be updated on the first player's game when second player moves.

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Use mouse to move second player on it's window	Spaceship of the second player should move on the first player's game.	As Expected	Pass

Test Case	35
Created By	Group7

Test Case Description	Using cheat combination at Level 5
-----------------------	------------------------------------

Tester's Name	Group7	Test Date	6/2/2020	Test Case(Pass/Fail)	Pass
---------------	--------	-----------	----------	----------------------	------

#	Prerequisites
1	Final Level should be loaded
2	Players should be alive at Level 5

#	Test Data
1	
2	

Test Scenario	Using cheat combination at Level 5 should make users to pass that level instantly
rest scenario	and show the EndGameScreen.

Step	Step Details	Expected Results	Actual Results	Pass / Fail
1	Pressing CTRL + SHIFT + 9 at the same time	End Game screen should contain "Congratulation" text, total score and individual scores on both players	As Expected	Pass

^{*}Being alive means having more than 1 Health